

VENKATA PRADEEP REDDY VENUTHURLA

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EDUCATION

Arizona State University, Tempe

Master of Science, Computer Science

August 2025 – Expected December 2026

PES University

Bachelor of Technology in Computer Science and Engineering

August 2019 – May 2023

CGPA: 3.43/4.0

TECHNICAL SKILLS

Languages: Python, Java, JavaScript/TypeScript, C/C++, Go, Ruby, HTML/DOM, Postman, Bash, React, OpenAPI, Linux/Unix, Docker, Kubernetes, Redis, Elasticsearch, SQL, Kafka, Spark, Postgres, TensorFlow, PyTorch, OpenCV.

Technologies: Springboot, Reactjs, Flask, MuleSoft, DynamoDB, Hadoop, Scala, GCP, AWS, Gradle/Maven.

Courses: Algorithms and Data structures, Web development, Operating System, Discrete Mathematics, Cloud Computing, Software Design Patterns, Distributed Database Systems, Statistical Machine Learning, Deep Learning.

WORK EXPERIENCE

IDFC First Bank | Software Engineer, API Integration Team

July 2023 – July 2025

- Engineered **Partner Developer Portal** enabling fintech partners (Amazon Pay, Cred, Flipkart) to explore, test, and integrate APIs; delivered Swagger-based simulations, real-time validation, and sandbox testing, reducing partner onboarding time by 60%.
- Architected **API Inventory Platform** (**manages 7000 Endpoints/1500 APIs**) for API lifecycle and compliance management; improved developer efficiency by 60% and reduced RBI compliance delays by 40% via advanced search and metadata workflow automation (Full Stack Development).
- Enhanced **Digital Lending APIs** on MuleSoft, scaling to **100+ TPS** for Aadhaar OTP and CKYC flows, improving onboarding performance and regulatory compliance.
- Led **infrastructure modernization**, On Premise to AWS migration, MySQL to Oracle transition, disaster recovery upgrades, increasing availability and reliability while reducing infra costs by 50%.

IDFC First Bank | Application Engineer Intern, API Integration Team

February 2023 – June 2023

- Built APIs for collections app, **reducing manual data retrieval by 30%**.
- Created JLG (Joint Liability Group) APIs enabling field agents to access overdue amounts, customer assignments, and batch details from Salesforce (SFDC), improving operational efficiency and **turnaround time by 25%**.

Arternal | Machine Learning Engineer Intern, Computer Vision Team

May 2021 – October 2021

- Optimized **fruit-harvesting robot vision models**, boosting disease classification and fruit detection accuracy to 91% while reducing inference time by 20%, enabling real-time field deployment.
- Delivered **end-to-end ML workflows**, data collection, preprocessing, annotation, model training, hyperparameter tuning, and deployment, accelerating experimentation cycles by 30%.

ACADEMIC PROJECTS

BuildMyWeb (Image to HTML code) | [Github Link](#)

August 2021 – December 2021

- Developed a CV pipeline converting hand-drawn wireframes into HTML/CSS using OpenCV and a custom TensorFlow CNN + CTC (Connectionist Temporal Classification) model, achieving 95% text recognition accuracy.
- Created React-based editor for real-time UI customization, delivering downloadable templates that cut prototyping time by 30% and reduced manual redesign effort by 40%.

PUBLICATIONS & ACHIEVEMENTS

Smart Driving Assistance | [Springer Nature \(ICCSST\) Link](#) | [Github Link](#)

January 2022 – February 2023

- Co-authored and presented research on a driver assistance system featuring lane detection with **lane structural loss functions for curvature prediction**, achieving 95%+ **real-time reliability**.
- Trained YOLO + CNN models on the **GTSRB dataset**, reaching 90%+ **accuracy across 43 traffic sign categories**, integrated voice alerts to improve driver response time by 20%, and optimized multi-threaded pipelines (30+ FPS) reducing false alarms by 25%.

Competitive Programming | [CodeChef Link](#)

January 2022 – February 2023

- Achieved **Global Rank 22/3200** in CodeChef April Long Challenge among 3,200+ participants.